

Please amend the paragraph starting at page 4, line 6 to read as follows

43 A heat source 14 is disposed 31 on a spacecraft 20 at a location that is remote from a thermal radiator 12, 13. A heat transfer system 10a comprising a loop heat pipe 10 is thermally coupled 32 between the heat source 14 and the thermal radiator 12, 13. Heat generated by the heat source 14 is coupled 33 to the thermal radiator 12, 13 by way of the loop heat pipe 10.

IN THE CLAIMS

Please amend the following Claims to read as follows

1. A heat transfer system comprising:
a spacecraft comprising a heat dissipating system;
a remotely-located heat source disposed on the spacecraft at a location that is remote from heat dissipating system; and
5 a loop heat pipe thermally coupled between the remotely-located heat source and the heat dissipating system for coupling heat generated by the heat source to the heat dissipating system.

A3 2. (Amended) The heat transfer system recited in Claim 1 wherein the loop heat pipe comprises flexible thin walled tubing coupled between an evaporator that is thermally coupled to the remotely-located heat source and a condenser that is thermally coupled to the heat dissipating system.

3. A spacecraft comprising:
a heat dissipating system for radiating heat into space;
a remotely-located heat source disposed at a location that is remote from heat dissipating system; and
5 a loop heat pipe thermally coupled between the remotely-located heat source and the heat dissipating system for coupling heat generated by the remotely-located heat source to the heat dissipating system.

4. The spacecraft recited in Claim 2 wherein the loop heat pipe comprises flexible thin walled tubing coupled between an evaporator that is thermally coupled to the remotely-located heat source and a condenser that is thermally coupled to heat dissipating system.

5. A heat dissipation method for use on a spacecraft comprising the steps of:
disposing a remotely-located heat source on a spacecraft at a location that is remote from a heat dissipating system;